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An overview of algorithmic and software technologies related to interactive sound rendering. The course lectures cover three main topics: physically based techniques to synthesize sounds generated from colliding objects or liquid sounds, efficient computation ...

2 [Communications of the ACM: Volume 53 Issue 1](#)January 2010 **Communications of the ACM****Publisher:** ACMFull text available: [Pdf](#) (8.09 MB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 1099, Downloads (12 Months): 1377, Downloads (Overall): 1377, Citation Count: 03 [Communications of the ACM: Volume 52 Issue 3](#)March 2009 **Communications of the ACM****Publisher:** ACMFull text available: [Pdf](#) (7.04 MB)Additional Information: [full citation](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 379, Downloads (12 Months): 2642, Downloads (Overall): 2798, Citation Count: 04 [Communications of the ACM: Volume 51 Issue 4](#)April 2008 **Communications of the ACM****Publisher:** ACMFull text available: [Pdf](#) (4.24 MB)Additional Information: [full citation](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 165, Downloads (12 Months): 902, Downloads (Overall): 3742, Citation Count: 05 [Geometric modeling based on polygonal meshes](#) **Video files associated with this course are available from the citation page** [Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl](#)August 2007 **SIGGRAPH '07: SIGGRAPH 2007 courses****Publisher:** ACMFull text available: [Pdf](#) (44.53 MB)Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 122, Downloads (12 Months): 945, Downloads (Overall): 2787, Citation Count: 2

In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative ...

6 [interactions: Volume 16 Issue 5](#)

September 2009

Publisher: ACM

Full text available: [Digital Edition](#), Pdf (7.05 MB)

interactions

Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 123, Downloads (12 Months): 148, Downloads (Overall): 148, Citation Count: 07 [A quality-aware optimizer for information extraction](#)[Alpa Jain, Panagiotis G. Ipeirotis](#)

April 2009

Transactions on Database Systems (TODS), Volume 34 Issue 1

Publisher: ACM

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Full text available: Pdf (1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 282, Downloads (Overall): 282, Citation Count: 1

A large amount of structured information is buried in unstructured text. Information extraction systems can extract structured relations from the documents and enable sophisticated, SQL-like queries over unstructured text. Information extraction systems ...

Keywords: Information Extraction, ROC curves

8 [The Sort-Merge-Shrink join](#)[Christopher Jermaine, Alin Dobra, Subramanian Aravamudan, Shantanu Joshi, Abhijit Pol](#)

December 2006

Transactions on Database Systems (TODS), Volume 31 Issue 4

Publisher: ACM

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Full text available: Pdf (500.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 87, Downloads (Overall): 564, Citation Count: 0

One of the most common operations in analytic query processing is the application of an aggregate function to the result of a relational join. We describe an algorithm called the *Sort-Merge-Shrink (SMS) Join* for computing the answer to ...

Keywords: OLAP, Online algorithms, nonparametric statistics

9 [Towards constructive text diagram and layout generation for information presentation](#)[John Bateman, Jörg Klein, Thomas Kamps, Klaus Reichenberger](#)

September 2001

Computational Linguistics, Volume 27 Issue 3

Publisher: MIT Press

Full text available: [Publisher Site](#), Pdf (1.22 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 90, Downloads (Overall): 926, Citation Count: 7

Combining elements appropriately within a coherent page layout is a well-recognized and crucial aspect of sophisticated information presentation. The precise function and nature of layout has not, however, been sufficiently addressed within computational ...

10 [Relational confidence bounds are easy with the bootstrap](#)[Abhijit Pol, Christopher Jermaine](#)

June 2005

SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data

2005

Publisher: ACM

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Full text available: Pdf (337.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 24, Downloads (Overall): 304, Citation Count: 0

Statistical estimation and approximate query processing have become increasingly prevalent applications for database systems. However, approximation is usually of little use without some sort of guarantee on estimation accuracy, or "confidence bound." ...

11 [Automatic complex schema matching across Web query interfaces: A correlation mining approach](#)

Bin He, Kevin Chen, Chuan Chang

March 2006 **Transactions on Database Systems (TODS)**, Volume 31 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (1.49 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 148, Downloads (Overall): 928, Citation Count: 9

To enable information integration, schema matching is a critical step for discovering semantic correspondences of attributes across heterogeneous sources. While complex matchings are common, because of their far more complex search space, most existing ...

Keywords: Data integration, bagging predictors, correlation mining, deep Web, ensemble, schema matching

12 [Sanitization models and their limitations](#)

R. Crawford, M. Bishop, B. Bhumiratana, L. Clark, K. Levitt

September 2006 **NSPW '06: Proceedings of the 2006 workshop on New security paradigms****Publisher:** ACMFull text available: [PDF](#) (396.84 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 53, Downloads (Overall): 276, Citation Count: 3

This work explores issues of computational disclosure control. We examine assumptions in the foundations of traditional problem statements and abstract models. We offer a comprehensive framework, based on the notion of an inference game, that unifies ...

Keywords: closed world assumption, data sanitization, disclosure control, inference problem

13 [Efficient reasoning](#)

Russell Greiner, Christian Dackner, N. Iwan Santoso

March 2001 **Computing Surveys (CSUR)**, Volume 33 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (445.41 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 205, Downloads (Overall): 2402, Citation Count: 9

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers ...

Keywords: efficiency trade-offs, soundness/completeness/expressibility

14 [Deriving private information from randomized data](#)

Zhenqi Huang, Wenliang Du, Bao Chen

June 2005 **SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data****Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (424.35 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 147, Downloads (Overall): 917, Citation Count: 29

Randomization has emerged as a useful technique for data disguising in privacy-preserving data mining. Its privacy properties have been studied in a number of papers. Kargupta et al. challenged the randomization schemes, and they pointed out that randomization ...

Keywords: PCA, bayes estimate, privacy-preserving data mining, randomization

15 [Webcam clip art, appearance and illuminant transfer from time-lapse sequences](#)

Jean-François Lalonde, Alexei A. Efros, Srinivasa G. Narasimhan

December 2009 **SIGGRAPH Asia '09**: SIGGRAPH Asia 2009 papers**Publisher**: ACM [Request Permissions](#)Full text available: [HTML](#) (15.11 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics**: Downloads (6 Weeks): 48, Downloads (12 Months): 132, Downloads (Overall): 132, Citation Count: 0

Webcams placed all over the world observe and record the visual appearance of a variety of outdoor scenes over long periods of time. The recorded time-lapse image sequences cover a wide range of illumination and weather conditions -- a vast untapped ...

Keywords: HDR, computer vision, image databases, image-based lighting, object insertion, time-lapse video

Also published in:

December 2009 **Transactions on Graphics (TOG)** Volume 28 Issue 516 [Data-Fusion in Clustering Microarray Data: Balancing Discovery and Interpretability](#)

Rafal Kustra, Adam Zagdanski

January 2010 **IEEE/ ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 7

Issue 1

Publisher: IEEE Computer Society PressFull text available: [HTML](#) (1.49 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics**: Downloads (6 Weeks): 33, Downloads (12 Months): 33, Downloads (Overall): 33, Citation Count: 0

While clustering genes remains one of the most popular exploratory tools for expression data, it often results in a highly variable and biologically uninformative clusters. This paper explores a data fusion approach to clustering microarray data. Our ...

Keywords: Clustering expression data, Gene Ontology, genomic data fusion, semantic similarity, cluster stability, knowledge-based validation.

17 [Examining RFID applications in supply chain management](#)

Fréd Niederman, Richard G. Mathieu, Roger Morley, Ik-Whan Kwon

July 2007 **Communications of the ACM**, Volume 50 Issue 7**Publisher**: ACM [Request Permissions](#)Full text available: [HTML](#) (43.54 KB), [PDF](#) (354.46 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics**: Downloads (6 Weeks): 83, Downloads (12 Months): 804, Downloads (Overall): 3455, Citation Count: 4

Technology infrastructure, business process, and managerial issues must be addressed by IT practitioners as they adapt to the business changes associated with the diffusion of RFID technology in the supply chain.

18 [Building bridges within learning communities through ontologies and "thematic objects"](#)

Ulrich Hoppe, Nils Pinkwart, Maria Gellinger, Sam Zeng, Felisa Verdejo, Beatriz Barros, Jose Ignacio Mayorga



May 2005 **CSCL '05: Proceedings of the 2005 conference on Computer support for collaborative learning: learning**

2005: the next 10 years!

Publisher: International Society of the Learning SciencesFull text available: [HTML](#) (410.51 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics**: Downloads (6 Weeks): 7, Downloads (12 Months): 67, Downloads (Overall): 317, Citation Count: 6





Communication through artefacts, in the sense of objects (co-)constructed by learners, is a well known mechanism in synchronous shared workspace environments. In this article, we explore the potential of extending this principle to heterogeneous, anonymous ...

Keywords: artefact-centred community support, content-awareness, social navigation

- 19 [Review of "Empirical methods for exploiting parallel texts" by I. Dan Melamed, Cambridge, MA: MIT Press, 2001](#)
[Ted Pedersen](#)
June 2002 **Computational Linguistics**, Volume 28 Issue 2
Publisher: MIT Press
Full text available:  [PDF](#) (242.09 KB)
Additional Information: [full citation](#) [references](#) [index terms](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 18, Downloads (Overall): 76, Citation Count: 0
- 20 [Review of "Efficient processing with constraint logic grammars using grammar compilation" by Guido Minnen, Stanford: CSLI Publications \(Stanford monographs in linguistics\), 2001](#)
[Suresh Manandhar](#)
June 2002 **Computational Linguistics**, Volume 28 Issue 2
Publisher: MIT Press
Full text available:  [PDF](#) (242.09 KB)
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